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TI \*\*\*Polyester\*\*\* multilayer \*\*\*containers\*\*\*  
IN Kuratsuji, Takatoshi; Hirose, Masahiko  
PA Teijin Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 6 pp.  
CODEN: JKXXAF

PI JP 62073943 A2 870404 Showa  
AI JP 85-212249 850927  
DT Patent

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LA Japanese

IC ICM B32B027-36

ICS B32B027-20; B65D001-00

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 17

AB Multilayer \*\*\*gas\*\*\* - \*\*\*barrier\*\*\* \*\*\*containers\*\*\*  
useful for beer or soft drinks, are manufd. from biaxially oriented  
\*\*\*polyester\*\*\* laminates having .gtoreq.1 layer(s) contg.  
0.01-30% inert inorg. flakes of av. size (.hivin.d) .ltoreq.5 .mu.,  
and an inner layer contg. no inorg. particles. A  
transesterification mixt. of di-Me terephthalate 100, ethylene  
glycol (I) 70, and MnOAc.4H2O 0.03 part was mixed with 0.05 part  
kaolinite flakes (.hivin.d 0.65 .mu., as 10% slurry in I) at  
170.degree., polycondensed in the presence of GeO2 and H3PO4, and  
\*\*\*solid\*\*\* - \*\*\*state\*\*\* \*\*\*polymd\*\*\* . at 200.degree. to  
give PET having intrinsic viscosity 0.75. A coextruded portion of  
this PET between layers of PET contg. no kaolinite was stretch blow  
molded into \*\*\*bottles\*\*\* which had CO2 permeability 13  
mL-cm/cm2-s-cm Hg, vs. 16 for a \*\*\*bottle\*\*\* prepd. using  
0.3-.mu. allophane microspheres instead of kaolinite.

ST \*\*\*gas\*\*\* \*\*\*barrier\*\*\* \*\*\*polyester\*\*\* \*\*\*bottle\*\*\*  
laminate; beer \*\*\*bottle\*\*\* \*\*\*gas\*\*\* \*\*\*barrier\*\*\*  
\*\*\*polyester\*\*\* ; carbonated \*\*\*beverage\*\*\* \*\*\*gas\*\*\*  
\*\*\*barrier\*\*\* \*\*\*polyester\*\*\* ; terephthalate copolymer  
\*\*\*gas\*\*\* \*\*\*barrier\*\*\* \*\*\*container\*\*\* ; kaolinite filler  
\*\*\*polyester\*\*\* \*\*\*gas\*\*\* \*\*\*barrier\*\*\* ; \*\*\*container\*\*\*  
\*\*\*beverage\*\*\* \*\*\*polyester\*\*\* laminate

IT Beer  
( \*\*\*containers\*\*\* for, inorg. flake filler-contg. multilayer  
\*\*\*polyester\*\*\* , \*\*\*gas\*\*\* - \*\*\*barrier\*\*\* )

IT Kaolinite-group minerals  
Serpentine-group minerals  
Smectite-group minerals

\*\*\*Mica\*\*\* -group minerals, uses and miscellaneous

RL: USES (Uses)

(flakes, multilayer \*\*\*bottles\*\*\* contg., \*\*\*gas\*\*\* -  
\*\*\*barrier\*\*\* , for carbonated \*\*\*beverages\*\*\* )

IT \*\*\*Polyesters\*\*\* , uses and miscellaneous

RL: USES (Uses)

(inorg. flake-filled, \*\*\*containers\*\*\* , multilayer  
\*\*\*gas\*\*\* - \*\*\*barrier\*\*\* , for carbonated \*\*\*beverages\*\*\*  
)

IT \*\*\*Bottles\*\*\*

( \*\*\*beverage\*\*\* , gas-impermeable, multilayer,  
\*\*\*polyester\*\*\* films with layers contg. inorg. flake fillers  
as)

IT \*\*\*Beverages\*\*\*

(carbonated, \*\*\*containers\*\*\* for, inorg. flake filler-contg.  
multilayer \*\*\*polyester\*\*\* , \*\*\*gas\*\*\* - \*\*\*barrier\*\*\* )

IT \*\*\*25038-59-9\*\*\* , \*\*\*Poly\*\*\* ( \*\*\*ethylene\*\*\*  
 \*\*\*terephthalate\*\*\* ), uses and miscellaneous  
 RL: USES (Uses)  
 (contg. inorg. flake fillers, multilayer \*\*\*gas\*\*\* -  
 \*\*\*barrier\*\*\* \*\*\*containers\*\*\* for carbonated  
 \*\*\*beverages\*\*\* )

IT 1318-00-9, \*\*\*Vermiculite\*\*\* \*\*\*1318-93-0\*\*\* ,  
 \*\*\*Montmorillonite\*\*\* , uses and miscellaneous 7727-43-7, Barium  
 sulfate  
 RL: USES (Uses)  
 (flakes, multilayer \*\*\*bottles\*\*\* contg., \*\*\*gas\*\*\* -  
 \*\*\*barrier\*\*\* , for carbonated \*\*\*beverages\*\*\* )